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ENZYME

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NiceZyme View of ENZYME: EC 2.3.1.4

Official Name							
Glucosamine 6-phosphate N-acety	Itransferase.						
Alternative Name(s)							
Aminodeoxyglucosephosphate ac	etyltransferase.						
D-glucosamine-6-P N-acetyltransfe	erase.						
Glucosamine 6-phosphate acetyla	se.						
Glucosamine-6-phosphate acetyla	se.						
Glucosamine-phosphate N-acetylt	ransferase.						
N-acetylglucosamine-6-phosphate	synthase.						
Phosphoglucosamine acetylase.							
Phosphoglucosamine N-acetylase	·						
Phosphoglucosamine transacetyla							
Reaction catalysed							
ļ	phate <=> CoA + N-acetyl-D-glucosamine 6-phosphate						
Cross-references							
Biochemical Pathways; map number(s)	D4 .						
BRENDA	2.3.1.4						
PUMA2	2.3.1.4						
PRIAM enzyme-specific profiles	2.3.1.4						
KEGG Ligand Database for Enzyme Nomenclature	2.3.1.4						
IUBMB Enzyme Nomenclature	2.3.1.4						
IntEnz	2.3.1.4						
MEDLINE	Find literature relating to 2.3.1.4						
MetaCyc	2.3.1.4						
UniProtKB/Swiss-Prot	Q17427, GNA1_CAEEL; O93806, GNA1_CANAL; Q9VAIO, GNA1_DROME; Q96EK6, GNA1_HUMAN; Q5UPZ9, GNA1_MIMIV; Q9JK38, GNA1_MOUSE;						

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Q5RAL9, GNA1_PONPY; 013738, GNA1_SCHPO; P43577, GNA1_YEAST;

align etc.

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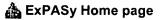
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NiceZyme View of ENZYME: EC 2.6.1.16

Official Name

Glutamine--fructose-6-phosphate transaminase (isomerizing).

Alternative Name(s)

D-fructose-6-phosphate amidotransferase.

GlcN6P synthase.

Glucosamine--fructose-6-phosphate aminotransferase (isomerizing).

Glucosamine-6-phosphate isomerase (glutamine-forming).

Glucosamine-6-phosphate synthase.

Hexosephosphate aminotransferase.

L-glutamine-D-fructose-6-phosphate amidotransferase.

Reaction catalysed

L-glutamine + D-fructose 6-phosphate <=> L-glutamate + D-glucosamine 6-phosphate

Comment(s)

- Although the overall reaction is that of a transferase, the mechanism involves the formation of ketiming between fructose 6-phosphate and a 6-amino group from a lysine residue at the active site, which is subsequently displaced by ammonia (transamidination).
- Formerly EC 5.3.1.19.

Cross-references

Biochem	nical	F	athways;

map number(s)

D4

PROSITE

PDOC00406

BRENDA

2.6.1.16

PUMA2

2.6.1.16

PRIAM enzyme-specific

profiles

2.6.1.16

KEGG Ligand Database

for Enzyme Nomenclature

2.6.1.16

IUBMB Enzyme

Nomenclature

2.6.1.16

IntEnz

2.6.1.16

MEDLINE

Find literature relating to 2.6.1.16

MetaCyc

2.6.1.16

	P53704,	<pre>GFA1_CANAL;</pre>	Q09740,	<pre>GFA1_SCHPO;</pre>	P14742,	<pre>GFA1_YEAST;</pre>
Q7T6. P828 Q4KM Q8UE. Q73F Q6HP. P397 Q6FZ.	Q7T6X6,	<pre>GFAT_MIMIV;</pre>	Q06210,	<pre>GFPT1_HUMAN;</pre>	P47856,	<pre>GFPT1_MOUSE;</pre>
	P82808,	<pre>GFPT1_RAT;</pre>	094808,	<pre>GFPT2_HUMAN;</pre>	Q9Z2Z9,	<pre>GFPT2_MOUSE;</pre>
	Q4KMC4,	<pre>GFPT2_RAT;</pre>	Q6F6U8,	<pre>GLMS_ACIAD;</pre>	Q9YCQ6,	GLMS_AERPE;
	Q8UEH1,	<pre>GLMS_AGRT5;</pre>	066648,	<pre>GLMS_AQUAE;</pre>	Q81VN5,	<pre>GLMS_BACAN;</pre>
	Q73F49,	<pre>GLMS_BACC1;</pre>	Q81J01,	<pre>GLMS_BACCR;</pre>	Q9KG45,	GLMS_BACHD;
	Q6HPL2,	GLMS_BACHK;	Q65P46,	GLMS_BACLD;	Q5WLG7,	GLMS_BACSK;
	P39754,	<pre>GLMS_BACSU;</pre>	Q8AAB1,	GLMS_BACTN;	Q6G322,	GLMS BARHE;
	Q6FZH6,	GLMS_BARQU;	Q7WE36,	GLMS_BORBR;	Q7W334,	GLMS_BORPA;
	Q7VRZ3,	<pre>GLMS_BORPE;</pre>	P59362,	GLMS_BRAJA;	Q577Y1,	GLMS BRUAB;
	Q8YC47,	<pre>GLMS_BRUME;</pre>	Q8CY30,	GLMS_BRUSU;	P57138,	GLMS_BUCAI;
- 2 -	Q8KA75,	<pre>GLMS_BUCAP;</pre>	P59499,	GLMS_BUCBP;	Q9PMT4,	GLMS_CAMJE;
	Q9ABV2,	GLMS_CAUCR;	Q5L589,	GLMS CHLAB;		GLMS_CHLCV;
	Q9PLA4,	GLMS_CHLMU;		GLMS CHLPN;		GLMS CHLTE;
		GLMS_CHLTR;		GLMS_CLOAB;		GLMS_CLOPE;
		GLMS_CLOTE;		<pre>GLMS_CORDI;</pre>		GLMS_COREF;
		GLMS_CORGL;		GLMS_CYACA;		GLMS_ECO57;
		GLMS_ECOL6;		GLMS ECOLI;		GLMS ERWCT;
		GLMS FRATT;		GLMS_FUSNN;		GLMS_GEOKA;
		GLMS GEOSL;		GLMS GLOVI;		GLMS_GLUOX;
		GLMS HAEDU;		GLMS HAEIN;		GLMS HALSA;
		GLMS HELPJ;		GLMS_HELPY;		GLMS_IDILO;
		GLMS_LACLA;		GLMS_LACPL;		GLMS_IBILO;
		GLMS_LEGPH;		GLMS_LEGPL;		GLMS_LEIXX;
		GLMS LEPIC;		GLMS_LEPIN;		GLMS_LISIN;
		GLMS_LISMF;		GLMS_LISMO;		GLMS_METAC;
11 :5 (1/5/6 : 5 :		GLMS_METJA;		_		
UniProtKB/Swiss-Prot		GLMS_METCA;		GLMS_METKA;		GLMS_METMA;
Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q		GLMS_MYCPA;		GLMS_MYCBO;		GLMS_MYCLE;
		GLMS_NEIG1;		GLMS_MYCS2;		GLMS_MYCTU;
		GLMS_NEIGI; GLMS_NOSS9;		GLMS_NEIMA;		GLMS_NEIMB;
				GLMS_OCEIH;		GLMS_PASMU;
		GLMS_PHOLL;		GLMS_PHOPR;		GLMS_PSEAE;
		GLMS_PSEPK;		GLMS_PSESM;		GLMS_PYRAB;
		GLMS_PYRAE;		GLMS_PYRFU;		GLMS_PYRHO;
		GLMS_PYRKO;		GLMS_RALSO;		GLMS_RHILO;
		GLMS_RHIME;		GLMS_SALPA;		GLMS_SALTI;
		GLMS_SALTY;		GLMS_SHEON;		GLMS_SHIFL;
		GLMS_SPHYA;		GLMS_STAAC;		GLMS_STAAM;
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		GLMS_STAAW;		GLMS_STAEQ;		GLMS_STAES;
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		GLMS_STRMU;		GLMS_STRP1;		GLMS_STRP3;
		GLMS_STRP6;		GLMS_STRP8;		GLMS_STRPN;
		GLMS_STRR6;		GLMS_SULAC;		GLMS_SYMTH;
		GLMS_SYNEL;		GLMS_SYNY3;		GLMS_THEMA;
		GLMS_THET2;		GLMS_THET8;		GLMS_THETN;
		GLMS_THIFE;		GLMS_TREPA;		GLMS_TROW8;
		GLMS_TROWT;		GLMS_VIBCH;		<pre>GLMS_VIBF1;</pre>
		GLMS_VIBPA;		<pre>GLMS_VIBVU;</pre>		<pre>GLMS_VIBVY;</pre>
		<pre>GLMS_WIGBR;</pre>		<pre>GLMS_XANAC;</pre>		<pre>GLMS_XANCP;</pre>
		GLMS_XYLFA;		<pre>GLMS_XYLFT;</pre>		<pre>GLMS_YERPE;</pre>
		GLMS_YERPS;		GLMS_ZYMMO;		NODM1_RHIME;
		NODM2_RHIME;		NODM_BRAJA;	Q52846,	NODM_RHILT;
	P08633,	NODM_RHILV;	Q6B308,	YM084_YEAST;		
				······································	***************************************	

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